

**AMENDMENTS TO THE CLAIMS:**

**Please amend the claims as follows:**

1-8. (Canceled)

9. (Original) An arrayed waveguide grating module comprising:

an arrayed waveguide grating including one or more input waveguides, an input side slab-waveguide connected to the output side of the input waveguide or waveguides, a plurality of arrayed waveguides formed on the side of the input side slab-waveguide opposite the input waveguide or waveguides, an output side slab-waveguide connected to the other terminal of the arrayed waveguides, a plurality of first output waveguides connected to the output side slab-waveguide on the side thereof opposite the arrayed waveguides and at least one second output waveguide formed together with the first output waveguides on the side of the output side slab-waveguide opposite the arrayed waveguides, the afore-said components being all formed on a substrate and the optical spectrum outputted from the second output waveguide being different from the optical spectra outputted from the other output waveguides; and

optical fibers each having one terminal optically connected to at least part of the plurality of waveguides constituting the output waveguides of the arrayed waveguide grating.

10. (Original) An arrayed waveguide grating module comprising:

an arrayed waveguide grating including one or more input waveguides, an input side slab-waveguide connected to the output side of the input waveguide or waveguides, a plurality of arrayed waveguides formed on the side of the input side slab-waveguide opposite the input waveguide or waveguides, an output side slab-waveguide connected to the other

terminal of the arrayed waveguides, a plurality of first output waveguides connected to the output side slab-waveguide on the side thereof opposite the arrayed waveguides and at least one second output waveguide formed together with the first output waveguides on the side of the output side slab-waveguide opposite the arrayed waveguides, the afore-said components being all formed on a substrate and the shape of the connecting portion of the second output waveguide with respect to the output side slab-waveguide being different from the shape of the connecting portion of the second output waveguides with respect to the output side slab-waveguide; and

optical fibers each having one terminal optically connected to at least part of the plurality of waveguides constituting the output waveguides of the arrayed waveguide grating.

11-33. (Canceled)

34. (Original) An arrayed waveguide grating module comprising:

an arrayed waveguide grating including at least one input waveguides, an input side slab-waveguide with the input side thereof connected to the output side of the input waveguide or waveguides, a channel waveguide array including a plurality of waveguides with lengths progressively increasing by a predetermined waveguide length difference, the input side of the waveguides being connected to the output side of the input side slab-waveguide, an output side slab-waveguide with the input side thereof connected to the output side of the plurality of waveguides constituting the channel waveguide array and a plurality of output waveguides each having one terminal connected to the output side of the output side slab-waveguide, the optical spectrum of the light outputted from a second waveguide as one

of the output waveguides being different from the optical spectrum of the lights outputted from first waveguides as the remaining output waveguides; and

optical fibers each having one terminal optically connected to at least part of the plurality of waveguides constituting the output waveguides of the arrayed waveguide grating.

35. (Original) An arrayed waveguide grating module comprising:

an arrayed waveguide grating including at least one input waveguides, an input side slab-waveguide with the input side thereof connected to the output side of the input waveguide or waveguides, a channel waveguide array including a plurality of waveguides with lengths progressively increasing by a predetermined waveguide length difference, the input side of the waveguides being connected to the output side of the input side slab-waveguide, an output side slab-waveguide with the input side thereof connected to the output side of the plurality of waveguides constituting the channel waveguide array and a plurality of output waveguides each having one terminal; connected to the output side of the output side slab-waveguide, a connecting portion of the second output waveguide with respect to the output side slab-waveguide having a shape different from the shape of connecting portions of the first output waveguides with respect to the output side slab-waveguide; and

optical fibers each having one terminal optically connected to at least part of the plurality of waveguides constituting the output waveguides of the arrayed waveguide grating.

36-50. (Canceled)